

**To:** Arguto, William[Arguto.William@epa.gov]  
**Cc:** Wisniewski, Patti-Kay[Wisniewski.Patti-Kay@epa.gov]  
**From:** Gray, Wendy  
**Sent:** Fri 1/10/2014 5:30:28 PM  
**Subject:** RE: WV CHARleston chemical spill

Looking at the maps... the Guyandotte comes into the Ohio about 2 miles upstream from the plant location. The Kanawha comes in well above that (10- 15 mi est?). The Elk drains into the Kanawha which would be well upstream of the Emergency intake I think. (Odd that I think that the spill is getting into the Ohio much farther upstream than is being reported). Unless primary intake is located between the Kanawha and the Guyandotte.

Hard to say with no intake coordinates. SDWIS locked on me. FAK files have no lat long. Pulled the distribution system schematic from Stage 2 IDSE and doesn't show intakes (as it should) – oh, how those hydraulic models were problematic

I know that was no help, but worth the effort to look at drawbacks to our system.

**From:** Arguto, William  
**Sent:** Friday, January 10, 2014 11:55 AM  
**To:** Gray, Wendy  
**Subject:** FW: WV CHARleston chemical spill

Wendy – I think it was 1 mile upstream from the plant and I am sure that it has already been looked at but just in case?

**From:** Johnson, KarenD  
**Sent:** Friday, January 10, 2014 7:16 AM  
**To:** Capacasa, Jon; binetti, victoria; Wisniewski, Patti-Kay; Arguto, William  
**Subject:** FW: WV CHARleston chemical spill

FYI- more information from Lora

**From:** Werner, Lora  
**Sent:** Friday, January 10, 2014 7:05 AM  
**To:** Johnson, KarenD; Johnson, Eric; Ioven, Dawn; Markiewicz, Karl  
**Subject:** Fw: WV Charleston chemical spill

Karen, see if this helps. I don't know what levels they are seeing, haven't made it thru all these attachments. CDC EOC recommended a 1 ppm screening level per ATSDR duty officer Larry Cseh below.

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**From:** Cseh, Larry (ATSDR/DTHHS/OD) <[loc3@cdc.gov](mailto:loc3@cdc.gov)>  
**Sent:** Friday, January 10, 2014 6:51:16 AM  
**To:** Werner, Lora S. (ATSDR/DCHI/EB)  
**Cc:** Holler, James S. (Jim) (ATSDR/DTHHS/OD); Cseh, Larry (ATSDR/DTHHS/OD)  
**Subject:** WV Charleston chemical spill

Lora,

I got a call last night from the CDC EOC concerning a chemical spill impacting the water system in Charleston WV. I've attached all the emails from the state. In a bullet

Jan 9 around 11:00 unknown quantities of Crude HCHM which major component is 4 – methylcyclohexanemethanol. All I could find was from the MSDS with a toxicological reference of 825 mg/kg LD-50 for rats. The American Water Company did not close the system before the product was taken in. The state issued a “Do Not Use” order at 18:00 but could not secure the system due to the high demand for fire protection etc.

I recommended a screening level of 1 ppm believing it would be extremely conservative.

Samples collected at 17:00 on the 9<sup>th</sup> were

Raw water 1093 ppb

West settled 1250 ppb

West filtered 864 ppb

East settled 930 ppb

East filtered 664 ppb

The DOH was reporting that the water had an off taste and odor. We are going to recommend that they flush the system if odor is detectable but do not anticipate any adverse health effects.

Larry

CAPT Larry F. Cseh, R.S., MSA

US Public Health Service

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